

Lesson plan

Minor body panel repairs



Skill

Minor body panel repairs

Duration

Approximately 1 hour

Suitable for:

This module is suitable for learners undertaking apprenticeship and technical skills, which include units and modules that focus on body panel repairs and vehicle accident repair.



Resources needed:

When accessing the learning materials through the WorldSkills UK Skills Development Hub, ensure you have a suitable screen, laptop or other computer, to access the system accordingly.

Students can go through the online materials independently – either at your facilities, if you have access to enough computers, or at home, in their own time.

Where students do not have access to the right technology, or where you as the educator would prefer to print out resources, you will need to download and print Lessons 1, 2 and 3. If you would like to use the stretch activity, please download and print the stretch activity, too.

You will also need access to technology required to play a video demo, which is mandatory watching in order to complete Lesson 3 and the stretch activity.

The assessment should be taken online, through the WorldSkills UK Skills Development Hub.



Learning outcomes

Students will:

- recognise how to use technical information
- develop an understanding of how to carry out repairs to exterior body panels
- identify a variety of techniques for repairing body panels
- describe how to prepare, test, use and maintain the hand and power tools required to prepare and reshape damage areas
- explain how to mix and apply plastic fillers
- identify and describe the different types and grades of abrasive paper and their use.

Section	Timings	Key Teaching Points
Introduction and learning objectives	2 minutes	Introduction slide
Lesson 1: utilising technical information*	10 minutes	Get learners thinking about the different types of technical information associated with body panel repairs
Lesson 2: the dynamic mixing system*	15 minutes	Demonstrate the steps of the dynamic mixing system and multi-hole abrasive sheet technology. Play a video demo to show this process visually
Lesson 3: the body filler and repair process*	15 minutes	Demonstrate the steps of the body filler and repair process. Play a video demo to show this visually
Summative assessment	15 minutes	Assess learners' understanding of the topic
(Optional): stretch activity*	15-30 minutes	You, as an educator, are encouraged to deliver the stretch activity. Get learners to watch the video on the future of the automotive industry before they go on to think about Advanced Driver Assistant Systems and how this might affect vehicle body repair
Assessment	10 minutes	Learners will be tested on their knowledge of the skill. The pass mark is 80% and learners may retake the test as many times as they like

*Please note, these sections are available as downloadable PDFs, through the WorldSkills UK Skills Development Hub



Additional information

Preparation:

Familiarise yourself with the WorldSkills UK Skills Development Hub:

- make sure that you have printed all of the resources
- ensure you have access to the technology to play the video demos.

Differentiation/meeting individual needs

You may need to support some learners who do not have access to the right technology or do not have internet access.

Extension work:

Learners can explore questions on Advanced Driver Assistant Systems. Please see the stretch activity document for more information.

